Workshop Agenda, March 10th 9 – 5 PM
Using Green Infrastructure to Address Hydromodification Issues in the Arid West

9:00 -9:15	Tobi Tyler (Lahontan Regional Water Quality Control Board)	Introduction to workshop and summary of Field Trip
9:15-10	Mark Stone (Desert Research Institute)	Overview of the hydrology and geomorphology of ephemeral streams and washes
10:00-10:15	BMP Demonstration	Willow Post Installation Video
10:15-10:30	BREAK 1	
10:30-11:15	John Izbicki (US Geological Survey)	Streamflow frequency, infiltration, and recharge from intermittent streams in the western Mojave Desert
11:15-12	A.L. Riley (SFBWQCB)	Flood damage reduction and bank stabilization projects: which work. The dos and don'ts for river projects.
12:00 - 1:00	LUNCH	
1:00-1:45	Susan Lien Longville (Water Resources Institute)	Alluvial Fan Task Force and the Sustainable Development Tool
1:45-2:30	Neville Slade (Agriculture and Natural Resources Department Victor Valley College)	Mojave Sustainability Project: A community approach to education in ecosystem restoration and natural resource management
2:30-3:00	BREAK 2	
3:00-3:45	Matt Yeager (San Bernardino Flood Control District)	Low Impact Development for the Arid West
3:45-4:30	Jill Bays (Transition Habitat Conservancy)	Conservation of ephemeral streams and washes, including the species that inhabit them.
4:30	Evaluations	SWRCB Training Academy

Biographies and Contact Information for Speakers:

Mark Stone Assistant Research Professor, Desert Research Institute. Phone (702) 862-5457**,** Email: Mark.Stone@dri.edu
Dr. Stone's research interests are in the ecological engineering aspects of riverine processes. His goal is to improve understanding of the quantitative influences of abiotic parameters (river form, nutrient content, temperature, sediment load, oxygen content, and contaminant load) on ecological processes. Specific interest is in engineering applications to restoration and management impacts in urban, forested, agricultural, and impounded settings. Experience is primarily in field observations and numerical investigations related to fish passage at hydroelectric dams. Research areas include: Aquatic restoration; Fish migration and screening; Integrated aquatic modeling; In-stream flow requirements; Climate change impacts.

John Izbicki (Research Hydrologist, USGS/WRD, Phone 1.619.225.6131, Email jaizbick@usgs.gov
John Izbicki attended West Virginia University, Penn State, and obtained his Ph.D. from University of California, Riverside. He has worked for the U.S. Geological Survey for more than 25 years in Maryland, Massachusetts, and California. While in California his studies have focused on understanding the physical hydrology of coastal and desert aquifer systems primarily through

the application of chemical and isotopic tracers. Recent work includes studies of natural recharge process in the Mojave Desert, artificial recharge, and occurrence and distribution of naturally occurring trace elements such as arsenic and chromium.

A.L. Riley (San Francisco Water Quality Control Board), Phone 510.622.2420, Email ALRiley@waterboards.ca.gov.
Ann L. Riley, Ph.D, is the watershed and river restoration advisor for the San Francisco Regional Water Quality Control Board. This regional board makes her available to the other eight regional water boards in California , the State Water Resources Control Board ,and the California Resources Agency and its departments. She is also Executive Director of the Waterways Restoration Institute,(WRI) a technically oriented organization which works on a national level to promote and sponsor demonstration stream restoration projects. She is a co-founder of the Urban Creeks Council of California, established the California Dept of Water Resources Urban Streams Restoration Program in 1984, now in its 23rd year, and is regarded as a national expert in the field of river restoration. She participated in the development of a national network of waterway citizen organizations in the 1990's, the Coalition to Restore Urban Waters. She is author of the book Restoring Streams In Cities . The watershed council she was instrumental in creating, the Wildcat-San Pablo Creeks Watershed Council, Richmond, Calif , and her non-profit won the Governor's Economic and Environmental Leadership Award in 2003. She is also a recipient of the Salmonid Restoration Federation's Nat Bingham Restorationist of the Year Award .Her PhD from the University of California, Berkeley under Dr. Luna Leopold specialized in flood and river management.

Neville Slade (Chair, Agriculture and Natural Resources Department at Victor Valley Community College), sladen@vvc.edu, Phone (760) 245-4271 Ext. 2698

- Developed a passion for nature and conservation while growing up as a wild little "bushman" on South African ranch. Along with an understanding that food must be grown, minerals must be mined and that farmers and miners can be some of the best stewards of the land
- Bachelors of Science Animal Science University of Natal. Tasted research as an assistant on Game Parks research projects during school vacations
- Wrestled with nature on first of their kind; Limpopo River Kayak Exploration and Dick King/Wild Coast ride
- Masters of Science in Reproductive Physiology, Colorado State University. Research on cryopreservation and splitting of equine embryos
- Fifteen years managing horse farms and consulting on reproduction and embryo transfer
- Co-developed Lewis Center for Educational Research, a K-12 charter school focusing on the sciences and parental involvement
- Added natural resource management focus to Victor Valley College's Agriculture department
- Partnered with local mines and natural resource management agencies to launch the Mojave Sustainability Project

Susan Lien Longville (Director, Water Resources Institute at California State University San Bernardino), Email slongvil@csusb.edu, Phone (909) 537-7684
Susan Lien Longville was appointed the Director of the Water Resources Institute (WRI) at California State University San Bernardino in June of 2006 after serving as the Associate Director for three years. The WRI is an interdisciplinary center that develops and encourages sound research and analysis and provides educational support on water resource issues affecting Southern California communities. Located in the Pfau Library, the WRI maintains the Joseph Andrew Rowe Water Resources Archives that serve as regional repository for academics and the public to access water-related documents and data including historical and technical information. Ms. Longville has an extensive background in Southern California water issues and is recognized for her expertise in multi-objective water resource management strategies. She served as a member of the forward-looking Floodplain Management Task Force in 2002 that developed multi-

objective recommendations for dealing with floods in California. In 2007, Susan was appointed to DWR's 2007 Independent Review Panel that published recommendations for flood management in a report entitled *A California Challenge—Flooding in the Central Valley.* Under Susan's leadership, the WRI is serving as the Coordinator of DWR's Alluvial Fan Task Force that is developing Planning Manual for sustainable land use on this unique landform. Ms. Longville's holds undergraduate and graduate degrees from the University of Wisconsin and University of Redlands. Susan served on the San Bernardino City Council from 1998-2006 representing the Inland Empire on the Southern California Association of Governments. A list of publications by Ms. Longville or the WRI is available upon request.

Jill Bays (Transition Habitat Conservancy), Email Jill@BaysTranslations.com, Phone (760) 868-5136
Jill Bays is a second generation native of So Cal, born in Glendale and has lived in the high desert of San Bernardino County since 1989. For 4 years Jill participated in the San Bernardino County General Plan Update Process, as member of the Phelan/Pinon Hills Community Plan Committee and was instrumental in keeping the 2.5 minimum acre zoning for this rural community despite tremendous development pressure to reduce this minimum zoning acreage. She and 4 other community leaders founded Transition Habitat Conservancy (THC) in May 2005 to implement the Community Plan's Open Space and Conservation Elements. THC is an all volunteer charitable non-profit public benefit corporation. Jill serves as a volunteer executive director and volunteer officer. THC's Mission is to preserve wildlife habitat and corridors along the Mojave Desert/San Gabriel Mountains boundary from Mormon Rocks to Old Ridge Route, along the San Andreas Fault Rift zone. THC has preserved 50 acres in 2007 and has a 1000 acre project in Pinon Hills that they are working to preserve. This Puma Canyon Project contains 3 ephemeral streams and includes the upper portion of the Sheep Creek Wash at the headwaters of the Mojave River that includes one of the best natural recharge locations for our overdraft aquifer. Jill holds a Bachelor of Science degree in Human Relations and Organizational Behavior from the University of San Francisco. She worked as an International Product Marketing Manager for DuPont for 15 years in the Electronic Materials Division where she was responsible for a product line with $150 million/year in sales. . She and her husband now own and operate a successful language services business that they started in 1989. Jill has always had a strong passion for conservation and especially wildlife conservation.

Matt Yeager (San Bernardino Co. Flood Control District), Phone (909) 387-8112, Email myeager@dpw.sbcounty.gov
Matt Yeager is currently the Stormwater Program Manager for the San Bernardino County Flood Control District, where he coordinates all compliance activities under the Municipal Stormwater NPDES Permit. He previously worked with municipal, industrial and construction stormwater permits as an Environmental Scientist and as an Engineering Geologist at the California Regional Water Quality Control Board, Los Angeles Region. He holds B.S. and M.S. degrees in geology and earned a "Doctor of Environmental Science and Engineering" degree from UCLA in 2007. His dissertation research focused on the hydrologic impacts of urbanization on stream channels in southern California and the regulatory implications.